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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,976	05/14/2007	Andreas Kruttschnitt	11839/42	7225
26646 KENYON & K	7590 01/21/201 ENYON LLP	EXAMINER		
ONE BROADV	VAY	BOEHLER, ANNE MARIE M		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			3611	
			MAIL DATE	DELIVERY MODE
			01/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/581,976	KRUTTSCHNITT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Anne Marie M. Boehler	3611			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>08 O</u>	ctober 2009				
· · · · · · · · · · · · · · · · · · ·	action is non-final.				
· <u> </u>					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>27-54</u> is/are pending in the application.					
4a) Of the above claim(s) <u>45,46,52 and 54</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>27-44,47-51 and 53</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	÷.,	, ,			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P				
Paper No(s)/Mail Date <u>10/27/09; 8/11/06</u> .	6) Other:				

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1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: second gear input shaft 3 and flexible drive mechanism 30. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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2. Claims 45, 46, 52, and 54 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on October 08, 2009.

Applicant argues that unity of invention cannot be lacking if there is only one independent claim. The examiner disagrees. Lack of unity cannot be asserted if the independent claim or claims are allowable, thereby showing that there is one unifying inventive concept. However, if the independent claim is not allowable, lack of unity may exist. In the present case, independent claim 27 is generic to the species, but it is not allowable. Therefore, it does not establish unity of invention.

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3. Claims 47 and 48 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant's original disclosure did not describe a current supply or motor signal forwarded without a "transfer device" or without sliders and flat spiral springs.

4. Claims 27-44, 47-51, and 53 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 27, line 11, it is not clear what is meant by "torque of the servomotor supported..." It appears that applicant means the motor is supported, not the torque of the motor. In line 13, "vehicle: should be followed by –other-.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 27, 28, 39-42, 51, and 53 are rejected under 35 U.S.C. 102(b) as being anticipated by Kiyosawa (USPN 6,029,768).

Kiyosawa shows a power steering system with a variable gear unit including a harmonic drive with a first input shaft connected to a steering handle and detachably connected to a flexspline 732 at 733. A second input shaft (from motor 6, shown in

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Figure 4) is operatively connected to motor 6 and an eccentric core 74. The eccentric core extends into and continuously engages the flexspline. The motor, in the embodiment of Figure 4 is mounted to the vehicle apart from the steering shaft.

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 31, 32, 49, and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kiyosawa.

Kiyosawa lacks a bearing between the eccentric core and the first input shaft. However, it is old and well known and would have been obvious to provide roller bearings between the rotating bodies (the core 74 and the shaft 2 shown in Figure 4), in order to maintain a constant relative spacing. Regarding claims 49 and 50, it would have been obvious to make the flexspline out of any conventional material including steering or plastic, in order to complete the device.

9. Claims 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kiyosawa in view of Adams (USPN 4,223,254).

Kiyosawa lacks a bearing a flexible drive mechanism between the servomotor and the secnd gear input shaft.

Adams shows a flexible drive mechanism, a belt 16, between a servomotor 12 and an input drive member 18. It would have been obvious to provide a flexible, belt

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drive between the servomotor and input member, as taught by Adams, in order to provide effective and easily maintained power transfer from the motor.

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- 10. Claims 29, 30, and 33-38 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Menjak, Yamamori, and Christensen teach harmonic drives for power steering systems.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne Marie M. Boehler whose telephone number is 571-272-6641. The examiner can normally be reached on 7:30-5:00, Monday-Friday, with work at home on Wednesdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on 571-272-6651. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anne Marie M Boehler/
Primary Examiner, Art Unit 3611

Anne Marie M Boehler Primary Examiner Art Unit 3611